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### NOTICE OF ALLOWANCE AND FEE(S) DUE

22801

Suite 1400

LEE & HAYES PLLC 601 W Riverside Avenue

SPOKANE, WA 99201

7590

11/19/2008

PARK, EDWARD

ART UNIT PAPER NUMBER

**EXAMINER** 

2624

DATE MAILED: 11/19/2008

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/812,754	03/29/2004	Ying-Qing Xu	MS1-1894US	4802

TITLE OF INVENTION: CARICATURE EXAGGERATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/19/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further correspondence including the Patent, advance orders and notifical indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a nemaintenance fee notifications.  CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				ew correspondence address; and/or (b) indicating a separate "FEE ADDRESS" fo  Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus have its own certificate of mailing or transmission.			
LEE & HAYE 601 W Riverside Suite 1400		Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposi States Postal Service with sufficient postage for first class a addressed to the Mail Stop ISSUE FEE address above, transmitted to the USPTO (571) 273-2885, on the date indice					
SPOKANE, WA	A 99201		L				(Depositor's name)
			<u> </u>				(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTORNE'	Y DOCKET NO.	CONFIRMATION NO.
10/812,754 TITLE OF INVENTION	03/29/2004 J: CARICATURE EXAC	GERATION	Ying-Qing Xu		MS1	-1894US	4802
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE TO	OTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	02/19/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	コ			
		2624	382-118000	_			
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required.  3. ASSIGNEE NAME A PLEASE NOTE: Un	oondence address (or Cha B/122) attached. dication (or "Fee Address 22 or more recent) attach ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Com	nge of Correspondence  "Indication form led. Use of a Customer  A TO BE PRINTED ON ified below, no assignee	2. For printing on the (1) the names of up t or agents OR, alternat (2) the name of a sing registered attorney or 2 registered patent att listed, no name will be THE PATENT (print or ty data will appear on the TT a substitute for filing ar (B) RESIDENCE: (CIT	o 3 registered patentively, gle firm (having as a agent) and the namorneys or agents. If e printed.  Type) patent. If an assign assignment.	member a es of up to no name is		cument has been filed for
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):	Individual Co	orporation o	r other private grou	p entity Government
	No small entity discount p	<ul> <li>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</li> <li>A check is enclosed.</li> <li>Payment by credit card. Form PTO-2038 is attached.</li> <li>The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).</li> </ul>					
_ 。 .	ns SMALL ENTITY statu	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no lo	nger claiming SMAl	LL ENTITY	status. See 37 CFI	R 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	ed from anyone other than c Office.	the applicant; a regi	stered attorr	ney or agent; or the	assignee or other party in
Authorized Signature				Date			
Typed or printed name				_			
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	itiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the D NOT SEND FEES OR	on is required to obtain or 1.14. This collection is er depending upon the indi the Chief Information Offic COMPLETED FORMS T	retain a benefit by t stimated to take 12 t vidual case. Any co cer, U.S. Patent and TO THIS ADDRESS	he public when the public when the comments on Trademark S. SEND TO	hich is to file (and omplete, including the amount of tim Office, U.S. Depar o: Commissioner fo	by the USPTO to process) gathering, preparing, and e you require to complete tment of Commerce, P.O. or Patents, P.O. Box 1450,

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LEE & HAYES PLLC			PARK, EDWARD		
601 W Riverside A	Avenue	ART UNIT	PAPER NUMBER		
Suite 1400 SPOKANE, WA 99201			2624 DATE MAILED: 11/19/200	8	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 643 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 643 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/812,754	XU ET AL.	
Notice of Allowability	Examiner	Art Unit	
	EDWARD PARK	2624	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED or other appropriate comr IGHTS. This application is	in this application. If not include nunication will be mailed in due of	d course. <b>THIS</b>
1. This communication is responsive to <u>Supplemental Respo</u>	nse received on 11/6/08.		
2. $\boxtimes$ The allowed claim(s) is/are $\underline{1,3-11,13-14,16-17,19-24,26-3}$	9,41,45-48 (to be re-num	bered as 1-39 <u>)</u> .	
<ol> <li>Acknowledgment is made of a claim for foreign priority ur</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> </ol>	nder 35 U.S.C. § 119(a)-(d	) or (f).	
<ol> <li>Certified copies of the priority documents have</li> </ol>	e been received.		
<ol><li>Certified copies of the priority documents have</li></ol>	e been received in Applica	tion No	
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been receiv	ed in this national stage applicati	on from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the req	uirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		ew ( PTO-948) attached	
1)  hereto or 2) to Paper No./Mail Date	-	,	
(b) ☐ including changes required by the attached Examiner's		or in the Office action of	
Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			ote the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □ Notice of	Informal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),	
2 House of Dialiperson's Latent Diawing Neview (FTO-340)	Paper No	o./Mail Date .	
3. Information Disclosure Statements (PTO/SB/08),	7. 🗌 Examiner	's Amendment/Comment	
Paper No./Mail Date  4.	8. 🛛 Examiner	's Statement of Reasons for Allov	vance
•	9. 🔲 Other	<u></u> .	
/YOSEF KASSA/			
Primary Examiner, Art Unit 2624			

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Art Unit: 2624

### **EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE**

#### Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/13/08 has been entered.
- 2. Claims 1, 3-11, 13-14, 16-17, 19-24, 26-39, 41, and 45-48 (to be re-numbered as 1-39) are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Regarding claims 1, 3-11, 13-14, 16-17, 19-24, 26-39, 41, and 45-48, the most relevant prior art of record, Liang, Jaakkola, with Massarsky combination, teaches a kernel regression to select some of the semantic facial features for caricature exaggeration and to exaggerate the semantic facial features into exaggerated features, wherein a nonlinear mapping between corresponding unexaggerated features and exaggerated features in the database is learned via the kernel regression (see Final Rejection on 5/14/08).

Applicant's claimed invention distinguishes over the Liang, Jaakkola, with Massarsky combination by selecting a relationship among facial features of the facial image to exaggerate based on a variance of the relationship from a norm derived from the reference facial images in

the reference database, wherein relationships having relatively high variance from the norm are selected for exaggeration, wherein the selecting a relationship comprises: performing a kernel regression in order to map the relationship to similar relationships among similar facial features in the reference facial images; assigning weights to the reference facial images based on a similarity of the relationship to corresponding relationships among feature in the facial images, wherein a high weight is assigned to a high similarity, and applying a linear regression to the weight facial images.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to EDWARD PARK whose telephone number is (571)270-1576. The examiner can normally be reached on M-F 10:30 - 20:00, (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vikkram Bali can be reached on (571) 272-7415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Edward Park Examiner Art Unit 2624 /YOSEF KASSA/ Primary Examiner, Art Unit 2624

/Edward Park/ Examiner, Art Unit 2624